PROJECT DESCRIPTION EQUIPMENT LIST "A" PHASING CHART THIS PROJECT INVOLVES TRAFFIC SIGNAL AND SIDEWALK RAMP RECONSTRUCTION. A. EQUIPMENT TO BE SUPPLIED BY THE SHA. MD 528 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION. DESCRIPTION UNIT QUANTITY ITEM NO. CONTROLLER ASC II WITH TELEMETRY RYG EΑ CONTROLLER CABINET, SIZE 6 INTERSECTION OPERATION EΑ VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS 43 SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN THIS INTERSECTION WILL OPERATE IN A NEMA FIVE-PHASE FULL-4 - D-3(1) (96"X16")PHASE 1 & 5 R DW DW TRAFFIC-ACTUATED MODE WITH AN ALTERNATE PEDESTRIAN PHASE FOR EQUIPMENT LIST "B" THE NORTH AND SOUTH LEGS OF THE INTERSECTION. THE MD 528 LEFT TURNS OPERATE IN EXCLUSIVE-PERMISSIVE PHASING. B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR. DW DW R DW DW ITEM NO. DESCRIPTION UNIT QUANTITY DW DW DW 1 & 6 CHANGE EΑ MAINTENANCE OF TRAFFIC (PAID FOR ON 118TH GI) 0 CONTROLLER REQUIREMENTS CY 5 TEST PIT EXCAVATION DW DW PHASE 2 & 5 1200 LF A NEW FULL-TRAFFIC-ACTUATED EIGHT PHASE TRAFFIC SIGNAL CONTROLLER REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS ANY WIDTH 1200 L.F HOUSED IN A BASE MOUNTED CABINET SHALL INSTALLED. AN APS CENTRAL CONTROL F & I 12" WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES DW 2 & 5 CHANGE 170 LF F & I STANDARD TYPE A COMBINATION CURB AND GUTTER 12" GUTTER PAN 8" DEPTH UNIT SHALL BE FURNISHED BY THE CONTRACTOR AND INSTALLED BY SHA. DW DW PHASE 2 & 6 DW DW SF 910 GENERAL NOTES 125 F & I DETECTABLE WARNING SURFACE FOR CURB RAMPS DW DW 2 & 6 CHANGE F & I 2 WIRE CENTRAL CONTROL UNIT EΑ 1. ALL EXISTING FOUNDATION TOPS WITHIN EXISTING SIDEWALK SHALL BE EΑ F & I 8" LED SIGNAL HEAD SECTION DW DW DW REMOVED 2" BELOW SIDEWALK GRADE. ΕA ADJUST EXISTING HANDHOLE TO GRADE INCLUDING COLLAR DW DW DW F & I BREAKAWAY PEDESTAL POLE (ANY SIZE) 2. ALL PROPOSED FOUNDATION TOPS SHALL BE INSTALLED FLUSH WITH SIDEWALK REMOVE & DISPOSE MATERIAL AND EQUIPMENT PER ASSIGNMENT (PAID FOR ON 118TH GI GRADE. WK DW DW EΑ F & I TWIN MAST ARM POLE & 50'/70' MAST ARMS ANY 'T' DIMENSION 595 DISCONNECT, PULL-BACK & REROUTE CABLES LF G FL/DW FL/DW DW DW 3. ACCESSIBLE PEDESTRIAN CONTROL EQUIPMENT SHALL BE DELIVERED TO THE F & I SCHEDULE 80 RIGID PVC CONDUIT UP TO 4" - TRENCHED LF 145 8034 SHA SIGNAL SHOP FOR TESTING AND PROGRAMMING PRIOR TO INSTALLATION. 43 Y DW DW DW DW INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE) 4 ALT & 8 CHANGE CONTACT MR. EDWARD RODENHIZER AT 410-787-7652 TO COORDINATE. LF F & I NO. 6 AWG STRANDED BARE COPPER GROUND WIRE DW DW WK WK EΑ F & I WEATHER HEAD, 3" 4. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET F & I ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 VOLTS 60 AMPS EΑ LOCATION REQUIREMENTS OF MUTCD SECTION 4E.09 AND FIGURE 4E.2 AND THE 115 8043 F & I ELECTRICAL CABLE - 1 CONDUCTOR NO. 4 AWG - THHN/THWN NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST EΑ F & I 12" LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION DW DW DW DW PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON F & I ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG) 505 LF LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE LF 1650 F & I ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG) DIRECTOR, OFFICE OF TRAFFIC AND SAFETY. EΑ INSTALL CONTROLLER AND CABINET - BASE MOUNT 2900* LF 12-PAIR COMMUNICATION CABLE, SELF-SUPPORTING (OVERHEAD) 5. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A EΑ RELOCATE EXISTING TRAFFIC SIGNAL (ENTIRE CLUSTER) PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60" X 60" LEVEL EΑ 8068-A RELOCATE EXISTING PED SIGNAL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%. 8069-A RELOCATE EXISTING VIDEO CAMERA SPECIAL NOTES RELOCATE EXISTING SIGNS 8071-A 6. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE EΑ 8000 NEG RELOCATE AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE. APS WILL FUNCTION AS FOLLOWS: *QUANTITY TO BE USED AS REQUIRED 7. PUSHBUTTON ARROWS AND SIGNS ARE TO BE ORIENTED PARALLEL TO THE EQUIPMENT LIST "C" TO CROSS COASTAL HIGHWAY: CROSSING FOR WHICH THEY ARE INTENDED. A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON C. EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT MESSAGE 8. ALL HARDWARE NECESSARY FOR THE INSTALLATION OF RELOCATED TRAFFIC HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. WILL BE "WAIT TO CROSS COASTAL HIGHWAY AT 127TH". SIGNAL EQUIPMENT SHALL BE INCIDENTAL TO THE PERTINANT RELOCATE PAY ITEM. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE A,B,E,M,Z~ TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE. TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE. 10. UNDERGROUND UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" PRIOR TO CONSTRUCTION WIRING KEY A, B, E, M -SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES A,B,J,K 7-CONDUCTOR ELECTRICAL CABLE L,M (NO. 14 AWG) AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED. 5-CONDUCTOR ELECTRICAL CABLE C,D,E,G (NO. 14 AWG) 11. IF EXISTING INTERCONNECT CABLE CANNOT BE REPOUTED AS SPECIFIED IN 1-CONDUCTOR ELECTRICAL CABLE PLANS, OVERHEAD INTERCONNECT CABLE SHALL BE REPLACED BETWEEN (NO. 4 AWG) - 3 RUNS123RD STREET AND 130TH STREET. OVERHEAD INTERCONNECT QUANTITY EXISTING CABLE TO BE DISCONNECTED, PULLED BACK & REROUTED HAS BEEN INCLUDED BUT SHALL ONLY BE USED IF RELOCATION IS NOT POSSIBLE. EXR TOD NO:XX443-06 SHA NO:WO409A53/C53 ~----MD 528@118TH ST /127TH ST 12.60 INCHES SHALL BE MAINTAINED BETWEEN BACK OF CURB AND FACE OF PROPOSED PF PROPOSED OVERHEAD POWER POLE BASE PLATE FOR ALL PROPOSED POLES. SERVICE BY DELMARVA STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG) CONTACT PERSONS FOR DISTRICT #1 ARE AS FOLLOWS: STATE OF MARYLAND EXISTING GROUND ROD DEPARTMENT OF TRANSPORTATION A,B,E,M---STATE HIGHWAY ADMINISTRATION MR. RAVINDRA GANVIR MR. GENE COFIELL PROPOSED GROUND ROD ASSISTANT DISTRICT ENGINEER - CONSTRUCTION ASSISTANT DISTRICT ENGINEER-TRAFFIC OFFICE OF TRAFFIC & SAFETY PHONE: (410) 677-4020 TRAFFIC ENGINEERING DESIGN DIVISION PHONE: (410) 677-4040 A, B, E, M¬ MD 528 (COASTAL HWY.) AT 127TH ST. MR. JAMES WRIGHT EXISTING OH I/C TO ASSISTANT DISTRICT ENGINEER - MAINTENANCE OCEAN CITY, MARYLAND 130TH STREET [,J,K,L,Z¬ PHONE: (410) 677-4010 EXR GENERAL INFORMATION SHEET REVISIONS CONTACT PERSONS FOR OOTS ARE AS FOLLOWS: J,K,L,M,Z DATE DECEMBER 2008 CONTRACT NO. XX4435185 SCALE | | "=20' MR. ROBERT SNYDER MR. RICHARD L. DAFF, SR. ASSISTANT DIVISION CHIEF Rummel, Klepper & Kahl, LLF CHIEF, TRAFFIC OPERATIONS COUNTY WORCESTER DESIGNED BY TRAFFIC OPERATIONS DIVISION Consulting Engineers Since 1923 LOGMILE <u>23052801.33</u> PHONE: (410)787-7630 PHONE: (410)787-7630 81 Mosher Street DAE TAP TIMS NO. ____, J609 CHECKED BY MR. EUGENE BAILEY MR. ED RODENHIZER Baltimore, Maryland 21217 FAP NO. TOD NO. ____ CHIEF, SIGN OPERATIONS CHIEF, SIGNAL OPERATIONS www.rkk.com PHONE: (410)787-7676 PHONE: (410)787-7650 TS NO. 2246D-GI DRAWING SG - 5 OF 7 SHEET NO. 5 OF 7 Ph: 410.728.2900 Fax: 410.728.3160 PLOTTED: Thursday, December 18, 2008 AT 02:22 PM FILE: M:\projects\2007\07056_shahdd\Task06_MD 528 ADA\CADD\127TH Street\pGI-P000_127TH.dgn